

?s pn=jp 2293151
S4 1 PN=JP 2293151
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DIALOG(R)File 347:JAPIO
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RECORDING SYSTEM AND METHOD USING A VISCOUS EFFECT OF ORGANIC COMPOUND

PUB. NO.: 02-293151 JP 2293151 A]
PUBLISHED: December 04, 1990 (19901204)
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APPL. NO.: 01-114491 [JP 89114491]
FILED: May 08, 1989 (19890508)
INTL CLASS: [5] B41J-002/01; B41J-002/015; B41J-002/175
JAPIO CLASS: 29.4 (PRECISION INSTRUMENTS -- Business Machines)
JAPIO KEYWORD: R002 (LASERS)
JOURNAL: Section: M, Section No. 1082, Vol. 15, No. 65, Pg. 110,
February 15, 1991 (19910215)

ABSTRACT

PURPOSE: To improve a response to obtain a small-size device enhanced in durability and reliability by using an ink mainly composed of a compound having two wave ranges in which an optical viscous effect is induced and a light source corresponding to the wave ranges.

CONSTITUTION: An ink is kept in a fluid state by heat or optical energy and fed to the vicinity of a delivery port 4. Furthermore, the ink can be pressurized at this time. The delivery of the ink in the vicinity of the delivery port 4 is controlled by a light source 2 which corresponds to a wave range in accordance with a series of information signals. The ink is composed of an organic compound having two or more wave ranges in which an optical viscous effect is induced, a colorant, and a solvent. In this construction, the viscosity change speed of the ink is enhanced, and a recording can be conducted with high response. In addition, an image can be directly formed by a non-contact recording method; therefore, the durability and reliability of a recorder can be improved, and the recorder can be made small in size.